

National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 15th February 2024

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
- कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 14.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 14th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 15-Feb-2024

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	54468	61534	49940	21063	2657	189662
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1189	1479	1274	443	49	4434
Hydro Gen (MU)	95	41	41	21	8	206
Wind Gen (MU)	12	93	79	-	-	184
Solar Gen (MU)*	134.49	70.76	127.27	5.07	1.04	339
Energy Shortage (MU)	0.79	0.75	0.00	0.75	0.34	2.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63160	72357	63234	21830	2812	220547
Time Of Maximum Demand Met	10:38	10:43	11:30	18:56	18:01	10:44

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.036	0.00	0.35	2.59	2.94	76.04	21.02

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	8702	0	164.5	63.8	-1.7	137	0.00
	Haryana	8709	100	157.4	117.9	0.5	204	0.29
	Rajasthan	17724	0	324.3	112.6	-2.2	61	0.00
	Delhi	4673	0	76.4	65.7	-0.4	252	0.00
	UP	17939	0	320.9	73.2	0.2	424	0.00
	Uttarakhand	2497	0	43.6	31.0	0.6	126	0.00
	HP	2133	0	36.3	31.5	-0.1	140	0.00
	J&K(UT) & Ladakh(UT)	2814	0	58.0	54.5	-0.6	120	0.50
	Chandigarh	258	0	4.0	4.2	-0.2	9	0.00
Railways NR ISTS	175	0	3.7	3.6	0.1	22	0.00	
WR	Chhattisgarh	5516	0	116.4	52.9	-1.5	261	0.00
	Gujarat	19478	0	393.6	122.8	-0.2	715	0.00
	MP	15575	0	297.2	177.9	-2.2	533	0.75
	Maharashtra	28694	0	598.5	187.4	0.8	849	0.00
	Goa	703	0	12.9	14.1	-1.3	39	0.00
	DNHDDPDCL	1286	0	29.2	29.4	-0.2	48	0.00
	AMNSIL	817	0	18.4	8.9	0.2	239	0.00
	BALCO	523	0	12.5	12.5	0.0	123	0.00
SR	Andhra Pradesh	12470	0	224.3	77.2	0.1	911	0.00
	Telangana	14539	0	278.8	148.9	0.3	606	0.00
	Karnataka	16175	0	309.8	132.7	-0.2	1039	0.00
	Kerala	4482	0	90.3	73.6	1.5	311	0.00
	Tamil Nadu	17261	0	361.7	178.1	-1.1	690	0.00
	Puducherry	429	0	9.5	9.2	-0.3	48	0.00
ER	Bihar	4666	0	84.9	74.6	0.6	331	0.12
	DVC	3413	0	72.0	-48.4	-0.2	298	0.00
	Jharkhand	1624	0	29.0	22.3	-2.8	205	0.63
	Odisha	5251	0	108.7	28.5	-1.6	354	0.00
	West Bengal	6843	0	145.9	22.3	-3.0	178	0.00
	Sikkim	114	0	1.9	1.9	0.0	23	0.00
Railways ER ISTS	13	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	171	0	3.0	2.6	0.3	39	0.00
	Assam	1578	0	28.3	22.5	0.1	158	0.08
	Manipur	212	0	2.9	2.9	0.0	42	0.26
	Meghalaya	390	0	6.6	5.3	-0.2	65	0.00
	Mizoram	141	0	2.4	1.7	0.1	34	0.00
	Nagaland	154	0	2.4	2.5	-0.2	17	0.00
Tripura	227	0	3.8	3.5	0.1	77	0.00	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.4	-14.1	-21.3	-27.8
Day Peak (MW)	-512.0	-698.1	-1064.0	-1280.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.3	-270.7	192.1	-146.3	10.6	0.0
Actual(MU)	209.2	-285.1	218.1	-156.5	11.7	-2.6
O/D/U/D(MU)	-5.1	-14.4	26.0	-10.2	1.1	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7835	11864	4889	4312	911	29811	56
State Sector	7706	8837	4561	2539	219	23861	44
Total	15541	20700	9450	6851	1130	53672	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	717	1586	730	664	10	3707	77
Lignite	30	19	62	0	0	111	2
Hydro	95	41	41	21	8	206	4
Nuclear	31	25	52	0	0	108	2
Gas, Naptha & Diesel	15	47	7	0	25	92	2
RES (Wind, Solar, Biomass & Others)	170	166	244	7	1	588	12
Total	1058	1884	1136	693	43	4814	100

Share of RES in total generation (%)	16.05	8.83	21.47	1.03	2.39	12.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.07	12.36	29.65	4.10	21.11	18.79

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.035

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220547	10:44	281
Non-Solar hr	196345	18:54	0

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 15-Feb-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	1040	0.0	15.7	-15.7
4	765 kV	SASARAM-FATEHPUR	1	0	584	0.0	9.8	-9.8
5	765 kV	GAYA-BALIA	1	0	666	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	29	44	0.0	0.3	-0.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	77	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	138	562	0.0	4.0	-4.0
9	400 kV	PATNA-BALIA	2	0	588	0.0	16.4	-16.4
10	400 kV	NAUBATPUR-BALIA	2	0	490	0.0	5.4	-5.4
11	400 kV	BIHARSHARIFF-BALIA	2	139	229	0.0	2.3	-2.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	514	0.0	7.3	-7.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	364	0.0	5.0	-5.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	120	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	79.8	-79.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	607	137	5.5	0.0	5.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	231	804	0.0	5.3	-5.3
3	765 kV	JHARSUGUDA-DURG	2	0	552	0.0	9.9	-9.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	623	0.0	9.8	-9.8
5	400 kV	RANCHI-SIPAT	2	13	271	0.0	2.1	-2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	114	45	1.3	0.0	1.3
					ER-WR	6.8	29.0	-22.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2009	0.0	45.2	-45.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2680	0.0	51.9	-51.9
4	400 kV	TALCHER-I/C	2	264	318	0.0	0.5	-0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	105.9	-105.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	138	57	0.6	0.3	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	457	58	3.7	0.0	3.7
3	220 kV	ALIPURDUAR-SALAKATI	2	97	7	1.1	0.0	1.1
					ER-NER	5.4	0.3	5.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	703	0	16.7	0.0	16.7
					NER-NR	16.7	0.0	16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2007	0.0	44.4	-44.4
2	HVDC	VINDHYACHAL B/B	-	224	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	20.6	-20.6
4	765 kV	GWALIOR-AGRA	2	0	2243	0.0	27.3	-27.3
5	765 kV	GWALIOR-PHAGI	2	152	1654	0.1	21.8	-21.7
6	765 kV	JABALPUR-ORAI	2	0	970	0.0	19.9	-19.9
7	765 kV	GWALIOR-ORAI	1	1009	0	15.6	0.0	15.6
8	765 kV	SATNA-ORAI	1	0	1043	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	590	891	3.4	5.5	-2.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2024	0.0	29.0	-29.0
11	400 kV	ZERDA-KANKROLI	1	109	173	0.7	0.9	-0.3
12	400 kV	ZERDA -BHINMAL	1	487	419	2.9	2.7	0.2
13	400 kV	VINDHYACHAL -RIHAND	1	492	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUALPUR	2	458	409	2.4	2.2	0.2
15	220 kV	BHANPURA-RANPUR	1	62	98	0.3	0.7	-0.4
16	220 kV	BHANPURA-MORAK	1	0	30	1.2	0.1	1.1
17	220 kV	MEHGAON-AURAIYA	1	108	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	75	14	0.8	0.0	0.8
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	45.9	194.0	-148.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	19.3	-19.3
2	HVDC	RAIGARH-PUGALUR	2	0	5012	0.0	83.5	-83.5
3	765 kV	SOLAPUR-RAICHUR	2	1131	1124	3.9	8.1	-4.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2351	0.0	39.0	-39.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2318	0.0	38.5	-38.5
6	400 kV	KOLHAPUR-KUDGI	2	1630	0	23.3	0.0	23.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	115	2.2	0.0	2.2
					WR-SR	29.3	188.6	-159.2

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	-194	186	-72	-1.72
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-323	240	-70	-1.69
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-389	-106	-249	-5.97
	NER	132kV GELEPHU-SALAKATI	-23	0	-12	-0.28
	NER	132kV MOTANGA-RANGIA	30	4	11	0.26
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-1.13
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.56
	ER	NEPAL IMPORT (FROM BIHAR)	-166	-5	-87	-2.09
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-452	-197	-390	-9.36
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-640	-779	-18.70
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1280	-808	-1160	-27.83
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-136	0	-108	-2.58

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 15-Feb-2024

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	11.82	0.00	0.00	0.48	0.00	0.00	12.30
Nepal	0.29	0.00	9.33	0.00	0.00	0.57	0.00	0.00	10.19
Bangladesh	18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.95	0.00	21.15	0.00	0.00	1.05	0.00	0.00	41.15

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.40	0.00	-11.82	0.00	0.00	-0.48	0.00	0.00	-11.90
Nepal	-0.29	0.00	-9.33	0.00	0.00	-0.57	0.00	0.00	-10.19
Bangladesh	-18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.55	0.00	-21.15	0.00	0.00	-1.05	0.00	0.00	-40.75